

WHAT IS CLAIMED IS:

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*al* 1. A system for providing distributed rendering services comprising:

5 a local rendering system operable to receive and render a render job, the render job having at least one render frame and an associated job description;


10 at least one remote rendering system operable to receive from the local rendering system the rendering job and render the rendering job and further operable to return a result of the render job to the local rendering system;

15 wherein the local rendering system comprises a first schedule server operable to determine, based at least in part on the job description, whether to render the rendering job locally or to send the render job to the at least one remote rendering system; and

20 wherein the first schedule server is operable to collect and deliver to a remote rendering system, via a first hot folder and a communications medium, information associated with the render job.

25 2. The system of Claim 1, wherein the at least one remote rendering system comprises a second schedule server, a resource server, and at least one render server operable to create render slots for processing the render job.

3. The system of Claim 2, wherein the second  
schedule server is operable to receive a render job via a  
second hot folder and distribute the render job to a  
plurality of render servers coupled to the remote  
5 rendering system based on information provided in the job  
description and further based on resource information  
stored in a resource database on the resource server, the  
resource information including availability information  
and specifications associated with a plurality of render  
10 slots created by the plurality of render servers.

 4. The system of Claim 1, wherein the first  
schedule server further comprises a new job queue and an  
outsourced job queue, the first schedule server operable  
15 to place a new render job in the new job queue and to  
move the new render job from the new job queue and place  
said new render job in the outsourced job queue when the  
job description associated with said new render job  
specifies remote rendering.

20 5. The system of Claim 3, wherein the second  
schedule server comprises an active job queue, the second  
schedule server operable to place the new render job,  
upon receiving it from the local rendering system, into  
25 said active job queue based, in part, upon the priority  
of the job and other information provided by the job  
description.

5 6. The system of Claim 3, wherein the second schedule server is further operable to place an I/O wrapper around the render job and any files accompanying the render job to permit access to said render job and files only by the render job.

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10 7. The system of Claim 3, wherein the second schedule server is operable to deliver the completed render job to the local rendering system via the second hot folder and the communications medium.


15 8. The system of Claim 1, wherein the first schedule server is operable to receive the completed job via the first hot folder, place the results on a storage device, and notify the supplier of the render job of completion of the render job, the first schedule server further operable to remove the render job from the outsourced job queue.

9. A computerized method for rendering images, comprising:

providing a render job having at least one render frame and an associated job profile;

5 inserting the render job in a new job queue associated with a first schedule server coupled to the local rendering system;

removing the render job from the new job queue and placing it in an outsourced job queue when the job  
10 description specifies remote rendering;

 advancing the job in the outsourced job queue as other render jobs are removed from the outsourced job queue;

15 delivering the render job from a local machine via a first communications medium to at least one remote machine for processing; and

distributing the render frames via a second communications medium to a plurality of render services coupled with the remote machines based at least in part  
20 on the job profile.

10. The method of Claim 9, wherein the job profile is based at least in part on the job description provided by a client.

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11. The method of Claim 9, further comprising:

delivering the render job and information for rendering the render job from a first hot folder coupled to the first schedule server to a second hot folder coupled to the second schedule server; and

placing the render job in an active job queue associated with the second schedule server based in part on information provided in the job description and priority.

12. The method of Claim 9, further comprising:

placing an I/O wrapper around the render job on the remote site to allow to the render job and any files accompanying the render job to be accessed only by said render job; and

distributing render frames of the render job to a plurality of render servers coupled to the remote rendering system based, in part, on resource information stored in a resource database associated with a resource server, the resource information including availability information associated with a plurality of render slots created by the plurality of render servers.

13. The method of Claim 9, further comprising:

delivering the completed render job back to the local rendering system from the second schedule server via the second hot folder to the first schedule server via the first hot folder and removing the render job from the active job queue by the second schedule server;

removing the render job from the outsourced job queue by the schedule server; and

notifying the client of the completion of the job.

14. A computerized method for remotely rendering a render job comprising:

receiving a render job submitted by a client at a first rendering site, the render job associated with at least one file stored at the first rendering site, the file storing information necessary to render the render job;

transferring the render job from the first rendering site to a second rendering site, the second site remote from the first site;

transmitting a copy of the associated file from the first rendering site to the second rendering site;

storing the copy of the associated file at the second rendering site in a secure location inaccessible to entities other than the client; and

rendering the render job by one or more render servers at the second rendering site.

15. The method of Claim 14, and further comprising redirecting requests by the one or more render servers to access the associated file from a central file storage location to the secure location.

16. The method of Claim 14, and further comprising redirecting requests by the one or more render servers to write an output file associated with the render job to a particular central storage area to the secure location.

17. The method of Claim 14, and further comprising storing the result of the rendered job in the secure location.

18. The method of Claim 14, wherein transmitting a copy of the associated file comprises transmitting a copy of the file via a first hot folder in the first rendering site to a second hot folder on the second rendering site.

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19. The method of Claim 17, and further comprising transmitting a copy of the result from the secure location on the second rendering site to a hot folder on the first site.

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20. The method of Claim 14, wherein the first rendering site comprises a schedule server operable to determine whether to render the render job at the first rendering site or the second rendering site.